Win10 FLDigi FLRig DigiRig Ft-857D Configuration NR1CH 3/30/24

This doc shows the settings that I found worked with a Yaesu FT-857D set up using FLDigi/FLRig with the DigiRig interface (https://digirig.net/). This doc addresses those settings on a Microsoft Win10 PC. The DigiRig site has several PDF files on it that address installing the interface on your PC, this doc's purpose is to show the specific tasks and settings I found were needed to get the interface working without any problems. I am assuming that anyone who is installing the DigiRig interface is following the DigiRig documentation (**Getting Started With DigiRig Mobile**) as well as this document, therefore I will not be repeating the instructions found in the DigiRig document as this doc is just a supplement. I will throw in some screen shots of that instruction that pertain to Win10. In addition, the DigiRig site has a doc that indicates different settings to check if you have problems. I'm also assuming that you are somewhat familiar with Windows 10 and can bring up the Control Panel for viewing.

Following the DigiRig instructions, the first step is to plug the correct DigiRig interface into the PC with the correct cable(s) without having the radio connected. Once that is done the PC should recognize the new port as shown below when you look at the Device Manager (found under Control Panel) on the PC. The COM port # will vary between different PCs (in these illustrations the COM port is COM3).



Right click on the Silicon Labs entry and then click **Properties**. Click on the Port Settings tab on the properties dialog box that is displayed.

<u>B</u> its per second: <u>D</u> ata bits: <u>P</u> arity:	4800 8	~
<u>D</u> ata bits: <u>P</u> arity:	8	~
Parity:	-	
	None	~
<u>S</u> top bits:	1	~
Elow control:	None	~
Ad	lvanced	<u>B</u> estore Defaults
	Stop bits: Elow control:	Stop bits: 1

Note these settings, they need to match other settings that you'll be setting later on in other areas. Note that I selected

the bps setting of 4800. In reality you can set this to any speed you want, it just has to match the later settings. I felt this speed was adequate and didn't select a higher speed because the faster the speed is set, the more prone to errors in transmission the "system" becomes.

Follow the DigiRig instructions here with regards to "Setting up your sound devices.". Note this is what the dialog boxes look like AFTER the settings have been changed. The Playback screens:

layback	Recording	Sounds	Communicatio	ns		General	Levels	Enhancements	Advanced	Spatial sound	
Select a	playback d	evice belo	w to modify it	s settings:				DigiRig So	ound		_
	DigiRi 2- USB	g Sound Audio De	evice	-a				Change	<u>l</u> con		
	CP251	-	incutions bett			Cont	roller Inf	ormation			
	Intel(R) Display	Audio			2-	USB Aud	io Device		Pro	operties
	Lantor	Sneaker	s / Headnhone		=	100	menc 02	SB Addio)			
0	Realte	k High De	finition Audio	.,							
						Jack	nformat	ion			
						No	Jack Info	ormation Availal	ble		
<u>C</u> onfig	gure		<u>S</u> et D	efault 🖛	<u>P</u> roperties	Device	usage:	Use this	device (ena	ble)	~
					-						

The Recording screen:

Sound	ł			×	🗢 DigiR	lig Micro	ophone P	ropertie	s			×
Playback	Recording	Sounds	Communications		General	Listen	Custom	Levels	Advance	ed		
Select a	DigiRi DigiRi 2- USE Ready Microp Realte Defau Stereo	device bel g Microph Audio D bhone k High D t Device Mix	hone evice efinition Audio		- Conti 2- I (Ge	roller Inf USB Auc eneric U	CI CI formation lio Device SB Audio)	iRig Mic	on	8	Proper	ties
	Realte Disabl	k High De	efinition Audio		Jack I No	Informat Jack Inf	ion ormation	Availabl	e			
<u>C</u> onfi	gure		Set Default	Properties	Device	usage:	U	se this d	levice (en:	able) Cance		~ Apply

Note that neither of the DigiRig sound settings are set as default. The OS will try to make them default when you add them, but change that back to the PC speaker and microphone. In both cases, Playback & Recording, you change the icon and the name by clicking on properties. In addition the recording screen has a tab called "Listen", it looks like this:

General	Listen	Custom	Levels	Advanced	
You car this Dig hear fe	n listen t giRig Mi edback.	to a porta crophone	ble musi ack. If	c player or other devi you connect a microp	ce through bhone, you may
List	en to thi ck throu	s device gh this d	evice:		
Defau	lt Playba	ck Device		~	
Powe	r Manag	gement			
() Co	ontinue sable au	running v utomatica	when on llv to sav	battery power e power	
0-					
			(K Cancel	Apply

You can click the "Listen to this device" checkbox ON and you should hear what you would normally hear over the radio (after you click the <Apply> button and the radio is hooked up), but you normally would **NOT** have this check box on.

Now that the sound settings have been completed in Control Panel, the next step is to address the microphone privs at the system level. Click **START > SETTINGS** (the settings icon is on the left side of the screen and looks like a gear). That brings up the settings screen.



Click the Privacy option. Make sure the "Allow apps to access your microphone" is **ON**.



Scroll down in this screen...

Make sure the "Allow desktop apps to access your microphone" is ON.



This completes the setup of the DigiRig sound settings.

FLRig looks like this when run:

flrig FT-857D						\times
File Config Memory Keyer	Help					
S3 S6 S9 +20 +40 +60	500	70 00		7	015.	10
Po 5 10 15 20	000	10.00	vfoA	∏ vfoB	🗌 🗌 Tur	ie 🗸
DIG	ATT PRE		A/B	🗌 Split	P	П
SQL 15			RF 15			
Mic 0			NR 0	-		
15	Nch 0	<u>I</u> <u>I</u>	Vol 0			-

The settings for FLRig that are different than the default settings are as follows:

Configuration				1. 0			>	×
	Rig: FT	-857D					Ę	-
PTT-Generic	Update CO	DM3						•
PTT-Cmedia	Baud: 48	00		Retries 📢	4	2	•	*
TMATE-2	v	1 Stop Bit	2 Stop Bits	Timeout 📢	4	50		
Other			RTS/CTS	Write delay 📢	4	0	•	•
Server		RTS +12 v	🗆 DTR +12 v	Post delay 📢	4	0		*
Poll		Default		Poll intvl 🕊	•	500	Þ	*
Restore		io		Ξ,	Acti	vate		
Send	1_USD aud	10						-
Trace				Connected	d 🔇		nit	

The various settings refer back to when you set up the Port settings at the beginning of this doc.

Configuration		-		×
Configure Xcvr PTT-Generic	CW mode PTT disable PTT in CW mode PTT on CAT Serial Port			
TMATE-2 TCPIP & TCI Other	BOTH ▼CAT OFF ▼RTS OFF ▼ □RTS +12 v □DTR +12 v	DTR	Init	
Client	PTT control on Separate Serial Port Port NONE			
Restore Commands Send Trace	SCU-17 OFF ▼RTS OFF ▼ □RTS +12 v □DTR +12 v	DTR	Init	

"PTT on CAT Serial Port" should be BOTH.

The FLDigi screen looks like this when it is run.

Ele Op Mode Configure View Lopbook Help Freq 50071.499 On Off 1407 In 599 Out 599 Cnty/Cntry Notes 50070.000 Call Op Az DIG Qub St Pr L	×
S0070.000 Freq 50071.499 On Off 1407 In [599 Out [599 Cuty/Cntry Notes DIG ▼ Read macros from: C:\Users\Spare PC:\thdip.files\macros\macros.mdf ▼ ▼ Q CQ CQ de NRICH NRICH NRICH CQ CQ CQ de NRICH NRICH NRICH pee k CQ CQ CQ de NRICH NRICH INRICH pee k CQ CQ CQ de NRICH NRICH INRICH pee k atÒl r I CQ CQ CQ de NRICH NRICH INRICH pee k atÒl r I	
CQ CQ <td< th=""><th></th></td<>	
	0
Rsid Colear KN II SK II Me/Oth Brag T/R Tx M Rx II TX M	•

Click on the **Configure** option on the menu line.

Fldigi configuration				
-] Configure ⊕ Call	Misc/Autostart			
+ Colors-Fonts			Enable	
+ Contests + IDs	firig: C:\Program Files (x86)\firig-2.0.05\firig.exe	Locate	•	Test
Modem Misc	flamp: C:\Program Files (x86)\flamp-2.2.11\flamp.exe	Locate	0	Test
Autostart CPU DTMF	finet:	Locate	0	Test
MBEMS interface	fliog:	Locate	0	Test
PSM Rx text capture Save Parameters	Prog 1: C:\Program Files (x86)\fimsg-4.0.23\fimsg.exe	Locate	0	Test
Sweet Spot TCP-IP sessions	Prog 2:	Locate	0	Test
Operator-station Rig Control Soundcard	Prog 3:	Locate	0	Test
+ UI + Waterfall				
Collapse Tre	Restore defaults	Save	Clos	e

Note that only FLRig is Enabled, setting this will automatically start FLRig when you run FLDigi so no need to start FLRig separately.

Fldigi configuration	_		×
 Configure Colors-Fonts Contests IDs Logging Modem Misc Autostart CPU DTMF KML NBEMS interface PSK reporter PSM Rx text capture Save Parameters Sweet Spot K3 A1A configure Soundcard UI Waterfall 	RTTY 1500 PSK et al. 1500 tart new modems at these frequencies guation OCW is LSB		
Collapse Tree Restore de	aults Save (Close	15

Setting up the Sweet Spots adheres to the standards that everyone follows for FLDigi, you can change this any time while running the program by clicking on the waterfall.

Fldigi configuration			—		×
 Configure Call Colors-Fonts Contests IDs 	Rig Control/firig	preferred method of tranceiver control			Maximiz
 + Logging + Modem + Misc Operator-Station - Rig Control 	 Enable firig xcvr control with fidigi as Shutdown firig with fidigi 	dient Poll Interval (msec) 📢 🚺	200	}	
CAT (rigcat) GPIO Hamlib Hardware PTT C-Media PTT	firig xmlrpc server parameters these controls are mirrored on the IO config 127.0.0.1	uration tab Addr 12345 Port Defau	ılt 🗌	Reconne	:ct
+ Soundcard + UI + Waterfall + Web	"Disable PTT ke are (ys modem if multiple instances of fidigi (client) connected to a single firig (server). OFIrig PTT keys modem			
Collapse Tree	Restore defaults	Save	(Close	<u>/-</u>

This screen tells FLDigi to use the instance of FLRig that was started as the go between for rig control.

Fldigi configuration				×
Fldigi configuration Configure Colors-Fonts Contests Contests FlDs Contests FlDs Coperator-Station Rig Control firig CAT (rigcat) GPIO Hamlib Hardware PTT C-Media PTT Soundcard UI Waterfall Web	Rig Control/Hardware PTT PTT delays valid for all CAT/PTT types Rig Control/Hardware PTT Rig Control/Hardware PTT PTT delays valid for all CAT/PTT types Rig Control s Rig Control/Hardware PTT Rig Control s Ri	ORTS = ODTR = Initial	= +V = +V ze	
Collapse Tree			lose	/-

This screen with the "Use RTS" checked ON is necessary for DigiRig to actually send your modulation to the radio.

Fldigi configuration			- 🗆	×
- Configure	Soundcard/Devices			
 Call Colors-Fonts Contests IDs Logging Modem Misc Operator-Station Rig Control Soundcard Alerts Devices Right channel Settings Signal Level Wav file recording UI Waterfall Web 	Ooss	Device:		
	Capture: DigiRig Microphone (2- USB Audio Device)			
	Playback: DigiRig Sound (2- USB Audio Device)		\$	
		Server string:		
	⊖File I/O only	⊘Device supports full duplex		
	Audio device shared by Audio Alerts and Rx Monitor			
	Laptop Speakers / Headphones (Realtek High Definition Audio) ↓			
	Note: must be selected and enabled for Rx Audio monitoring!			
Collapse Tree	Restore defaults	Save	Close	<u>/-</u>

If you set up your sound card privs correctly, you'll be able to check the **Port Audio** on and then set the **Capture** & **Playback** to the audio devices you set up. Insure the "**Device supports full duplex**" is **ON** too.

The physical setup of the FT-857 with DigiRig looks like this. The cable connecting the PC with the FT-857 is of a single cable design, but I have also seen where there were two separate cables. It is easy to tell which connector on the rig side goes where as the connectors have different pin layouts. On the DigiRig side the connectors are color coded so that should be a given too.

